



P.B.5818 - Patentlaan 2  
2280 HV Rijswijk (ZH)  
+31 70 340 2040  
TX 31651 epo nl  
FAX +31 70 340 3016

Europäisches  
Patentamt

Zweigstelle  
in Den Haag  
Recherchen-  
abteilung

European  
Patent Office

Branch at  
The Hague  
Search  
division

Office européen  
des brevets

Département à  
La Haye  
Division de la  
recherche

LET

Cullinane, Marietta Bettina  
Vollmannstrasse 40  
81927 München  
ALLEMAGNE

EINGEGANGEN

2.4. JULI 2003

A-97C

Datum/Date

23.07.03

Zeichen/Ref./Réf. MK 2562-HE	Anmeldung Nr./Application No./Demande n°./Patent Nr./Patent No./Brevet n°. 02028711.6
Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire Hehrlein, Christoph, Dr.	

FB: ZH

## COMMUNICATION

The European Patent Office herewith transmits

- the European search report
- the declaration under Rule 45 EPC
- the partial European search report under Rule 45 EPC
- the supplementary European search report concerning the international application under Article 157(2) EPC relating to the above-mentioned European patent application. Copies of the documents cited in the search report are enclosed.

The following specifications given by the applicant have been approved by the Search Division :

Abstract       Title       Figure

The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published with the abstract, since the Search Division considers that it better characterises the invention than the one indicated by the application.

Figure:

Additional copy(copies) of the documents cited in the European search report.



## REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.



### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):

No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



European Patent  
Office

LACK OF UNITY OF INVENTION  
SHEET B

Application Number  
EP 02 02 8711

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-9

PROBLEM : how to make a substrate able to release oxygen  
SOLUTION : incorporate a liquid oxygen carrier into said substrate or attach said liquid oxygen carrier to said substrate

2. Claim : 10

PROBLEM : how to store a pre-oxygenated fluorocarbon solution  
SOLUTION : having a housing containing said fluorocarbon solution wherein said housing is a sealed container preventing leakage of gas and liquid



DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	EP 0 372 088 A (SUMITOMO ELECTRIC INDUSTRIES) 13 June 1990 (1990-06-13) * page 3, paragraph 2 - page 4, paragraph 2 * * page 5, paragraph 1 - page 7, paragraph 1 * * page 8, paragraph 2 - page 9, paragraph 1 * ---	1-5	A61L29/14 A61L15/00
X	EP 0 112 658 A (CHILDRENS HOSP MEDICAL CENTER) 4 July 1984 (1984-07-04) * page 5, line 23 - page 9, line 4 * * page 11, line 13 - page 12, line 7 * * page 19, line 20 - line 22 * * page 23, line 10 - line 13 * ---	1,2,4,7, 8	
X	US 4 366 169 A (WHITE DAVID C) 28 December 1982 (1982-12-28) * column 2, line 64 - column 3, line 19 * * column 4, line 40 - line 54 * * column 5, line 19 - line 44 * -----	1-3,7,8	

TECHNICAL FIELDS  
SEARCHED (Int.Cl.7)

A61K  
A61B  
A61L  
A61M

1 The present search report has been drawn up for all claims

Place of search Date of completion of the search Examiner

MUNICH

20 March 2003

Lundblad, H

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone  
Y : particularly relevant if combined with another document of the same category  
A : technological background  
O : non-written disclosure  
P : intermediate document

T : theory or principle underlying the invention  
E : earlier patent document, but published on, or after the filing date

D : document cited in the application  
L : document cited for other reasons

& : member of the same patent family, corresponding document

ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

EP 02 02 8711

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-03-2003

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0372088	A	13-06-1990		CA 1337793 C CN 1050330 A JP 2001290 A JP 2683750 B WO 8911882 A		26-12-1995 03-04-1991 05-01-1990 03-12-1997 14-12-1989
EP 0112658	A	04-07-1984		JP 1788927 C JP 4077582 B JP 59139252 A		10-09-1993 08-12-1992 10-08-1984
US 4366169	A	28-12-1982		BE 883998 A CA 1161760 A DE 3049665 C DE 3049665 T EP 0031353 A GB 2070429 A,B IT 1209229 B WO 8100002 A		29-12-1980 07-02-1984 24-11-1988 18-03-1982 08-07-1981 09-09-1981 16-07-1989 08-01-1981